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W 0 141 1 0 .	25 X 1
2. Of Stated that approximately 2	5X1 ₁
85% of the equipment had been bought and delivered for the two contracts: "Proposed Modifications for the Fast Try ") 5 5 7
This 85% consisted of all long lead time items	25X1
of the items to be purchased consist of things such as power supplies, racks, logic modules, etc.	
3. The only long lead item necessary for the latest contract to make the IDT and display an "off-line" system	
near future with an expected 6 month delivery date	5524
earlier, however, would speed delivery of the IDT system to NPIC by about two months.	25 X 1
4. Stated that the logic decimals	25 X 1
for the entire system was 65% complete and progress on the IDT modification progressing on schodule. He was a fitter of the contract of the co	
that the system could be delivered as per the schedule given in Proposal No. TO-B 53-69, "IDT Computer Display System".	· · · · · · · · · · · · · · · · · · ·
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- 5. The computer programming for the Honeywell DDP-416 computer, which will control the IDT system, is about 90% complete. I asked the contractor to place sufficient comments in the programs to facilitate easy and rapid changes by the users. The programs are being designed to give an IBM 360, Fortran IV, compatible tape output from the tape transport. The tape must be 360 compatible since the operating system for the Univac at NPIC is much too small to handle the type of image processing necessary with the IDT. The tape unit presently planned is a 7 track device, but the contractor is trying to obtain a 9 track unit for approximately the same cost. A 9 track unit is compatible with more tape units here in ORD and at Headquarters.
- 6. The contractor was asked to check on the possibility of changing the 8th bit associated with density level to actually being another bit in determining the density level of a picture point. This 8th bit is now a direction bit which will be redundant information once the IDT is modified. The greater number of grey levels available would decrease the noise problems in data manipulation. It is understood that this possible change does not otherwise affect the contract as stated.
- 7. The contractor requested to make a change in the sampling increments from: 1, 2, 3, 5, 12, 25, 50, 125, and 250 microns to 1, 2, 4, 8, 16, 32, 64, 128, and 256 microns. The proposed change would allow the contractor to use binary counters for sampling increment determination, thus eliminating a much more complicated design. This change appears to be totally reasonable and the contractors were instructed to continue to consider this possible change. I have a copy of the details of this proposed change.
- before deciding on a final equipment layout, to arrive at an optimum spacing allotment.
- 9. The contractor is improving the hard copy capability of the IDT equipment by placing an electronically controlled servo system on the Alden recorder to sink it with the IDT output. The contractor is also looking for a better recorder that could be purchased for approximately the same cost allocated to improving the Alden.

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- 10. The contractor was asked to look into the possibility of placing micrometer X and Y adjustments on the final table to allow fine adjustment of photography.
- 11. The contractor reminded us that Honeywell has maintained an opening for one person for a one or two week programming course for the DDP_416 and also another opening for a technician to take a maintenance course. We FSD/EPB told the contractor we would postpone this training until 25% a few weeks before the equipment is delivered.

12. I was shown through the Optics Department and given an overall view of the present projects of concern

Optics
Office of Research and Development

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